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FORM NUMBER

BD-22

BUILDING PERMIT SUBMITTAL REQUIREMENTS FOR GENERATOR SYSTEMS

THIS CHECKLIST IS PROVIDED TO ASSIST BOTH YOU AND STAFF TO HELP IN THE REVIEW AND PROCESSING OF YOUR PERMIT. PLEASE READ CAREFULLY! *Construction Plans and supporting documentation shall be of sufficient detail and clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of the California Building Standards Codes and relevant laws, ordinances, rules and regulations, as determined by the Building Official (CRC R106.1.1, CBC 107.2.1).*

THE FOLLOWING ITEMS ARE REQUIRED FOR A COMPLETE APPLICATION SUBMITTAL FOR A PERMIT TO INSTALL A BACK-UP GENERATOR AND ASSOCIATED FACILITIES IN SIERRA COUNTY. INCOMPLETE SUBMITTALS MAY DELAY THE PLAN CHECK PROCESS.

☐ **COMPLETED AND SIGNED BUILDING PERMIT APPLICATION FORM** Clearly describe complete scope of work, valuation, and specify Permit Holder. (Form BD-01)

☐ **SITE PLAN / COVER SHEET** Two (2) copies (See Form BD-05 for detailed site/plot plan requirements.)

- Owners name/site address/contact information, assessor's parcel number (APN), North arrow, sheet index, statement of compliance with specific CA codes used, preparers name/address/signature, and project scope of work
- Identify size of generator (KW), whether it is portable or fixed/stand-by, and fuel type (gas, diesel, propane)
- Identify all existing structures and location of main power panel
- Identify location of proposed generator equipment, transfer switch, etc. in relation to existing facilities. Include non-portable generator setback distances from buildings, operable windows, fuel storage tanks, leach lines, & property lines
- Identify whether equipment will be located in a FEMA-mapped floodplain; and if so, provide proper flood-proofing design and documentation (including "Floodproofing Certificate for Non-Residential Structures" (FEMA Form 086-0-34)
- Identify any proposed enclosure (existing/proposed shed, ramada, factory cover), setbacks, and pad details (if applicable) (NOTE: structures housing generator equipment must be engineered to withstand min. snow, wind, seismic, flood loads)
- Location and types (above ground or underground) of associated electrical and gas utilities
- Location, size, and setbacks to propane tanks from the generator, property lines and structures. Indicate if new or existing.

☐ **ELECTRICAL DETAILS** Provide two (2) copies of electrical single line diagram plans clearly showing:

- Transfer switch type, size and location
- Amperage size and location of the main electrical panels and subpanels
- Grounding/bonding conductor sizes/types for structure (main ground, water bonding, gas bonding, etc.)
- Equipment grounding conductor size, type and location for circuits and module/rack grounding
- Junction box locations
- Disconnect types, sizes and locations
- Conduit sizes/types from the generator to the transfer switch and power source
- Conductor wiring types and sizes, system and generator
- Specify either: Manual transfer, OR Load Calcs., OR Load Management (include specs), OR Sub Panel (provide details)

☐ **REQUIRED SIGNAGE** Specify on plans all required signage for panels, disconnects, transfer switches, etc pursuant to California Electrical Code Article 702.7. Must have permanent labels with contrasting background/lettering, lettering minimum 3/8" in height, and resistant to fading pursuant to CA Electrical Code Article 702.7

☐ **CUT SHEETS/MANUFACTURER'S MANUALS** Provide "cut sheets" (manufacturer's installation manuals & specifications) for all generator equipment, transfer switch, and load management equipment. Include min. requirements for generator slab type, thickness, and anchoring information (if applicable), and setback clearances from walls, vents and operable windows.

☐ **GAS LINES** If generator will be supplied fuel from a dedicated fuel source, specify (on Site Plan or supplemental sheet):

- type of fuel tank (LPG, diesel, gasoline)
- existing or new tank, size
- location/setbacks from generator, structures, property lines, leach field, streams/surface water
- underground and aboveground gas line locations, materials and sizes
- For LPG, include total gas line length from regulator to generator
    - EXAMPLE: for 22KW propane generator, fuel consumption = 355,000 btu's

¾" gas line good for up to 20 ft
1" gas line good for up to 100 ft
1¼" gas line good for up to 400 ft